From:	Robert Neely
To:	Burt Shephard/R10/USEPA/US@EPA
Cc:	Ben Meyer; Chip Humphrey/R10/USEPA/US@EPA; Eric Blischke/R10/USEPA/US@EPA; Genevieve Angle; Katherine Pease; Mary Baker; Megan Callahan-Grant; Nancy Munn
Subject:	Re: EPA spreadsheet with summary results of the Portland Harbor baseline ecological risk assessment (BERA)
Date:	04/06/2010 03:42 PM
Attachments:	2010-04-06_PHSummaryBERAHQsLOE.xlsx robert_neely.vcf

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Thanks Burt.

Hey Gang -- I did a really crude binning of Burt's work and characterized each contaminant by which bin it falls into (a bin being the number of LOEs for a given contaminant that exceed an HQ). It's not intended to say anything about risk to salmonids specifically, just helps to see which chemicals are likely to be problems in a general sense.

R

Shephard.Burt@epamail.epa.gov wrote:
> Rob,
>
> As we discussed on this morning's call, attached is the spreadsheet I've
> been compiling of what I believe the chemicals of ecological concern
> (i.e. chemicals with hazard quotients greater than or equal to 1.0)
> should be in the BERA. The attached is not quite complete,
> specifically, I have not calculated hazard quotients for generic
> sediment quality benchmarks that are in organic carbon normalized
> concentration units. These are mostly some of the PAHs, legacy
> insecticides, and a few of the semivolatiles such as phthalates and
> chlorinated benzenes. I have calculated hazard quotients for the
> generic sediment quality benchmarks with units of dry weight bulk
> sediment (usually mg/kg or µg/kg, some of the dioxins/furans are ng/kg),
> as these were not presented in the BERA anywhere I can find.
>
> I also haven't checked all of the Round 3 data that was not available
> for screening in the screening level ecological risk assessment, but
> have checked the Round 3 surface water, sediment, and fish tissues.
> This added a few new chemicals not identified in the screening level
> ecological risk assessment, such as tributyltin in surface water. There
> may be a few additional chemicals that get added to the list of
> chemicals of concern at the conclusion of the BERA, but the attached
> should cover the vast majority of them, and likely has all of the
> chemicals with the largest hazard quotients in the list of chemicals of
> concern.
>
> The spreadsheet also has summaries of the number of chemicals of concern
> for each line of evidence in the BERA (Row 110), as well as the number
> of lines of evidence for which each chemical of concern has a maximum
> hazard quotient greater than 1.0 (Column BT).
>
> Give me a call if you have questions.
>
> Best regards,
>
> Burt Shephard
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> "If your experiment needs statistics to analyze the results, then you
> ought to have done a better experiment"
> - Ernest Rutherford
>
> (See attached file: Summary of BERA HQs.xlsx)

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